



Attorney's Docket No.: 16163-031002 / AM-100236

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Parris *et al.* Art Unit : 1652
Serial No. : 10/717,138 Examiner : Lindsay T. Odell
Filed : November 19, 2003
Title : CRYSTAL STRUCTURE OF ACPS/ACP COMPLEX, SOLUTION
STRUCTURE OF B. SUBTILIS ACP, AND USES THEREOF

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form.

Copies of all the listed references are enclosed.

This statement is being filed before the receipt of a first Office Action on the merits. No fees are believed due. However, any necessary charges or credits should be applied to Deposit Account No. 06-1050, referencing Attorney Docket No. 16163-031002.

Respectfully submitted,

Date: May 3, 2005

Allyson R. Hatton
Allyson R. Hatton, Ph.D.
Reg. No. 54,154

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

21078787.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

5/3/05

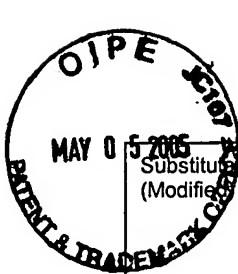
Date of Deposit

m

Signature

K. Hatton

Typed or Printed Name of Person Signing Certificate



MAY 05 2005

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
16163-031002Application No.
10/717,138
**Information Disclosure Statement
by Applicant**
 (Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
*Parris et al.*Filing Date
November 19, 2003Group Art Unit
1652**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	BA						

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	CA	Baldwin <i>et al.</i> "Isolation and Partial Characterization of ACV Synthetase from <i>Cephalosporium acremonium</i> and <i>Streptomyces clavuligerus</i> Evidence for the Presence of Phosphopantothenate in ACV Synthetase" <i>J. Antibiot.</i> 44(2):241-248 (1991)
	CB	Banerjee <i>et al.</i> "inhA, a Gene Encoding a Target for Isoniazid and Ethionamide in Mycobacterium tuberculosis" <i>Science</i> 263(5144):227-230 (1994)
	CC	Bergler <i>et al.</i> "Protein EnvM Is the NADH-dependent Enoyl-ACP Reductase (FabI) of <i>Escherichia coli</i> " <i>J. Biol. Chem.</i> 269(8):5493-5496 (1994)
	CD	Crump <i>et al.</i> "Solution Structure of the Actinorhodin Polyketide Synthase Acyl Carrier Protein from <i>Streptomyces coelicolor</i> A3(2)" <i>Biochem.</i> 36:6000-6008 (1997)
	CE	Dessen <i>et al.</i> "Crystal Structure and Function of the Isoniazid Target of Mycobacterium tuberculosis" <i>Science</i> 267(5204):1638-1641 (1995)
	CF	Elovson <i>et al.</i> "Acyl Carrier Protein" <i>J. Biol. Chem.</i> 243(13):3603-3611 (1968)
	CG	Fischl <i>et al.</i> "Isolation and Properties of Acyl Carrier Protein Phosphodiesterase of <i>Escherichia coli</i> " <i>J. Bacteriol.</i> 172(9):5445-5449 (1990)
	CH	Furukawa <i>et al.</i> "Thiolactomycin Resistance in <i>Escherichia coli</i> Is Associated with the Multidrug Resistance Efflux Pump Encoded by <i>emrAB</i> " <i>J. Bacteriol.</i> 175(12):3723-3729 (1993)
	CI	Geiger <i>et al.</i> "Isolation of the <i>Rhizobium leguminosarum</i> NodF Nodulation Protein: NodF carries a 4'-Phosphopantetheine Prosthetic Group" <i>J. Bacteriol.</i> 173(9):2872-2878 (1991)
	CJ	Hill <i>et al.</i> "Overexpression, Purification, and Characterization of <i>Escherichia coli</i> Acyl Carrier Protein and Two Mutant Proteins" <i>Protein Expression and Purification</i> 6:394-400 (1995)
	CK	Holak <i>et al.</i> "Three-Dimensional Structure of Acyl Carrier Protein Determined by NMR Pseudoenergy and Distance Geometry Calculations" <i>Biochem.</i> 27:6135-6142 (1988)
	CL	Holak <i>et al.</i> "Three-dimensional structure of acyl carrier protein in solution determined by nuclear magnetic resonance and the combined use of dynamical simulated annealing and distance geometry" <i>Eur. J. Biochem.</i> 175:9-15 (1988)
	CM	Holak <i>et al.</i> "Improved strategies for the determination of protein structures from NMR data: the solution structure of acyl carrier protein" <i>FEBS Lett.</i> 242(2):218-224 (1989)
	CN	Hopwood <i>et al.</i> "Molecular Genetics of Polyketides and its Comparison to Fatty Acid Biosynthesis" <i>Annu. Rev. Genet.</i> 24:37-66 (1990)
	CO	Issartel <i>et al.</i> "Activation of <i>Escherichia coli</i> prohaemolysin to the mature toxin by acyl carrier protein-dependent fatty acylation" <i>Nature</i> 351:759-761 (1991)

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16163-031002	Application No. 10/717,138
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant <i>Parris et al.</i>		
		Filing Date November 19, 2003	Group Art Unit 1652	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	CP	Kleinkauf <i>et al.</i> "A nonribosomal system of peptide biosynthesis" <i>Eur. J. Biochem.</i> 236(2):335-351 (1996)
	CQ	Lambalot <i>et al.</i> "A new enzyme superfamily – the phosphopantetheinyl transferases" <i>Chem. & Biol.</i> 3(11):923-936 (1996)
	CR	Lambalot <i>et al.</i> "Cloning, Overproduction, and Characterization of the <i>Escherichia coli</i> Holo-acyl Carrier Protein Synthase" <i>J. Biol. Chem.</i> 270(42):24658-24661 (1995)
	CS	Lynen "On the Structure of Fatty Acid Synthetase of Yeast" <i>Eur. J. Biochem.</i> 112:431-442 (1980)
	CT	Magnuson <i>et al.</i> "Regulation of Fatty Acid Biosynthesis of <i>Escherichia coli</i> " <i>Microbiol. Reviews</i> 57:522-542 (1993)
	CU	Majerus <i>et al.</i> "Fatty Acid Biosynthesis and the Role of the Acyl Carrier Protein" <i>Advan. Lipid Res.</i> 5:1-33 (1967)
	CV	Marahiel "Multidomain enzymes involved in peptide synthesis" <i>FEBS Lett.</i> 307(1):40-43 (1992)
	CW	Prescott <i>et al.</i> "Acyl Carrier Protein" <i>Advan Enzymol. Relat. Areas Mol. Biol.</i> 36:269-311 (1972)
	CX	Quémard <i>et al.</i> "Enzymatic Characterization of the Target for Isoniazid in <i>Mycobacterium tuberculosis</i> " <i>Biochem.</i> 34:8235-8241 (1995)
	CY	Reuter <i>et al.</i> "Crystal structure of the surfactin synthetase-activating enzyme Sfp: a prototype of the 4'-phosphopantetheinyl transferase superfamily" <i>The EMBO J.</i> 18(23):6823-6831 (1999)
	CZ	Rock <i>et al.</i> "Improved Purification of Acyl Carrier Protein" <i>Anal. Biochem.</i> 102:362-364 (1980)
	CAA	Rusnak <i>et al.</i> "Biosynthesis of the <i>Escherichia coli</i> Siderophore Enterobactin: Sequence of the <i>entF</i> Gene, Expression and Purification of EntF, and Analysis of Covalent Phosphopantetheine" <i>Biochem.</i> 30:2916-2927 (1991)
	CBB	Sanyal <i>et al.</i> "Biosynthesis of Pimeloyl-CoA, a Biotin Precursor in <i>Escherichia coli</i> , Follows a Modified Fatty Acid Synthesis Pathway: ¹³ C-Labeling Studies" <i>J. Am. Chem. Soc.</i> 116:2637-2638 (1994)
	CCC	Shen <i>et al.</i> "Purification and Characterization of the Acyl Carrier Protein of the <i>Streptomyces glaucescens</i> Tetracenomycin C Polyketide Synthase" <i>J. Bacteriol.</i> 174(11):3818-3821 (1992)
	CDD	Takiff <i>et al.</i> "Locating Essential <i>Escherichia coli</i> Genes by Using Mini-Tn10 Transposons: the <i>pdxJ</i> Operon" <i>J. Bacteriol.</i> 174(5):1544-1553 (1992)
	CEE	Wakil <i>et al.</i> "Fatty Acids Synthesis and its Regulation" <i>Annu. Rev. Biochem.</i> 52:537-579 (1983)
	CFF	White "Stoichiometry and Stereochemistry of Deuterium Incorporated into Fatty Acids by Cells of <i>Escherichia coli</i> Grown on [methyl- ² H ₃]Acetate" <i>Biochemistry</i> 19:9-15 (1980)
	CGG	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	